



Australian Government

CPCCON3047 Cut concrete

Release: 2

CPCCON3047 Cut concrete

Modification History

Release 2	Updated reference to general construction induction training program.
Release 1	This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0. Supersedes and is not equivalent to CPCCCO3047 Cut and core concrete.

Application

This unit of competency specifies the skills and knowledge required to safely cut concrete. It requires using concrete and masonry saws to cut concrete to specification.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these tasks with a high degree of self-direction.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

Completion of the general construction induction training program, specified in the Safe Work Australia model *Code of Practice: Construction Work*, is required by anyone carrying out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

Pre-requisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry

Unit Sector

Concreting

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1 Plan and prepare to cut concrete.	1.1 Interpret specifications for concrete cutting and clarify requirements with relevant persons.

- 1.2 Assess work site to determine concrete type, thickness, reinforcement and base type impacting cutting requirements.
 - 1.3 Plan work tasks to comply with relevant legislation, regulations, standards and codes, and manufacturer, work health and safety (WHS), environmental and workplace requirements.
 - 1.4 Select and fit required personal protective equipment (PPE).
 - 1.5 Inspect work site, assess hazards and apply risk controls, including required signage and barricades.
 - 1.6 Select tools and equipment, check for serviceability and rectify or report any faults.
- 2 Carry out concrete cutting activities.
 - 2.1 Inspect concrete to assess its readiness for cutting and to prevent raveling, cracking and saw damage.
 - 2.2 Conduct required measurements and calculations and mark cutting positions according to specifications.
 - 2.3 Use tools and equipment safely to perform trial cuts according to manufacturer and workplace requirements.
 - 2.4 Cut concrete according to specifications and quality requirements.
 - 2.5 Control dust from concrete cutting activities according to workplace requirements.
- 3 Clean up.
 - 3.1 Clear work area and dispose of, reuse or recycle materials according to regulatory and workplace requirements.
 - 3.2 Clean, check, maintain and store tools and equipment according to manufacturer and workplace requirements.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is not equivalent to CPCCCO3047 Cut and core concrete.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCCON3047 Cut concrete

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by cutting concrete on two different occasions involving, on each occasion:

- saw-cutting one joint to a horizontal concrete surface to a minimum of five metres straight or to the set line.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- compliance requirements of legislation, regulations and Australian Standards relevant to concrete cutting tasks:
 - environmental protection and waste disposal
 - specified tolerances
 - work health and safety (WHS)
- concrete cutting processes and techniques:
 - soft cutting
 - expansion cutting
- cutting methods that can cause excessive blade wear, raveling and cracking
- factors to consider when assessing the readiness of concrete for cutting to avoid raveling, cracks and saw damage including the effects of weather and climate
- health risks associated with silica dust exposure
- purpose and importance of construction, contraction, control and expansion joints:
 - doweling systems
 - installation methods
 - role in the long-term serviceability of concrete pavements
- typical hazards associated with concrete cutting using concrete and masonry saws, and risk control methods for each:

- blade fracture
- electrocution
- saw kick-back, push-back and pull-in
- silica dust
- toxic fumes
- uses, maintenance and limitations of tools and equipment used to cut concrete
- workplace requirements for cutting concrete:
 - cleaning up the work area
 - maintaining and storing tools and equipment
 - quality
 - reporting problems
 - safety requirements including dust suppression and personal protective equipment (PPE).

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to documentation, specifications, concrete, tools and equipment required to achieve the performance evidence.

Links

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